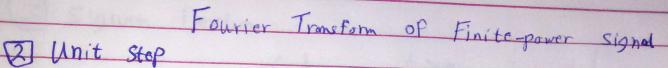
Page:				
Date:	••••	•	 	



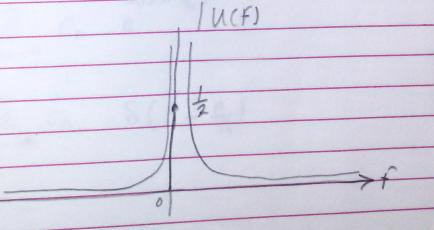
$$u(t) = 91 \qquad t > 0$$

$$t < 0$$

$$u(t) = \int_{-\infty}^{\infty} S(t) dt$$

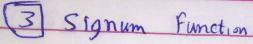
$$U(1) = \frac{F.T}{j2\pi f} + \frac{G(0)}{2} S(f)$$

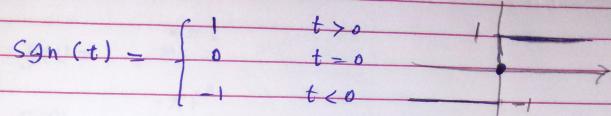
$$U(t) = \frac{1}{\hat{J}2\pi f} + \frac{S(f)}{2}$$



Spectrum of unite step

Page:





$$Sgn = u(t) - u(-t)$$
  
= 2  $u(t) - 1$ 

$$U(t) = \frac{1}{j2\pi F} + \frac{8(f)}{2}$$



$$G_{p}(\mathbf{f}) = \sum_{n=-\infty}^{\infty} C_{n} \cdot \delta(\mathbf{f} - \frac{n}{T_{0}})$$

## Gaussian Function:

$$g(t) = e^{-\pi t^2}$$

$$G(f) = e^{-\pi f^2}$$

## Expontential fundam

$$g(t) = e^{-t} \cdot u(t)$$

$$G(f) = \frac{1}{1 + j 2\pi f}$$